



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

OCT 18 2001

DOT-E 12290

EXPIRATION DATE: September 30, 2003

(FOR RENEWAL, SEE 49 CFR § 107.109.)

1. GRANTEE: Savage Industries, Incorporated
Pottstown, PA
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the loading of tank cars, coupled in a series with the bottom discharge outlet caps in place on all cars except the first and last, with the setting of the hand brake and the blocking of a wheel, in both directions, on the first and last cars of a series of coupled tank cars, prior to unloading. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specially stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.302(c) in that marking the exemption number on tank cars is waived; and § 174.67 (a) (2).
5. BASIS: This exemption is based on the application of Savage Industries, Incorporated, dated May 20, 1999, submitted in accordance with § 107.105 and the public proceeding thereon.

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6. HAZARDOUS MATERIALS (49 CFR 172.101):

Proper Shipping Name/Hazardous Materials Description	Hazard Class/ Division	Identification Number	Packing Group
Acetone	3	UN 1090	II
Acetic acid solution	8	UN 2789	II
Argon, refrigerated liquid	2.2	UN 1951	N/A
Bisulfites, inorganic, aqueous solution, n.o.s.	8	UN 2963	III
Butyl acetates	3	UN 1123	II
Carbon dioxide, refrigerated liquid	2.2	UN 2187	N/A
Combustible liquid, n.o.s.	Combustible	NA 1993	III
Corrosive liquid, n.o.s.	8	UN 1760	I
Diesel fuel	3	NA 1993	II
Elevated temperature material, liquid, n.o.s.	9	NA 9259	III
Environmentally hazardous substance, liquid, n.o.s.	9	UN 3077	III
Ethyl methyl ketone	3	UN 1193	II
Ferric chloride solution	8	UN 2586	III
Ferrous chloride solution	8	NA 1760	II
Flammable liquid n.o.s.	3	UN 1993	I
Fluorosilicic acid	8	UN 1778	II
Fuel, aviation, turbine engine	3	UN 1863	III
Fuel oil	3	NA 1993	III
Gasoline	3	UN 1203	II
Hazardous waste, liquid, n.o.s.	9	NA 3082	III
Heptane	3	UN 1206	II

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Proper Shipping Name/Hazardous Materials Description	Hazard Class/Division	Identification Number	Packing Group
Hexane	3	UN 1208	II
Hydrochloric acid, solution	8	UN 1789	II
Hydrogen peroxide, aqueous solutions	5.1	UN 2014	II
Hydrogen peroxide, aqueous solutions	5.1	UN 2015	II
Isopropanol	3	UN 1219	III
Naphtha	3	UN 2553	III
Naphtha petroleum	3	UN 1255	III
Naphtha, solvent	3	UN 1256	III
Petroleum distillates, n.o.s.	3	UN 1268	III
Petroleum oil	3	UN 1270	III
Phosphoric acid	8	UN 1805	III
Poisonous liquid, n.o.s.	6.1	UN 2810	II
Potassium hydroxide solution	8	UN 1814	II
Sodium hydroxide solution	8	UN 1824	II
Sulfur, molten	9	NA 2448	III
Sulfuric acid	8	UN 1830	II
Toluene	3	UN 1294	II
Toluene diisocyanate	6.1	UN 2076	II
Triethylamine	3	UN 1296	II
Waste caustic alkali liquids, n.o.s.	8	UN 1719	II
Waste combustible liquids, n.o.s.	Combustible	NA 1993	III
Waste flammable liquids	3	UN 1993	III
Waste sulfuric acid	8	UN 1830	II

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Proper Shipping Name/Hazardous Materials Description	Hazard Class/Division	Identification Number	Packing Group
Xylene	3	UN 1307	II

7. SAFETY CONTROL MEASURES:

- a. PACKAGING - Packaging prescribed are DOT Specification and non-DOT Specification tank cars authorized by the HMR for the products indicated above. Packages must be equipped with efficient hand brakes which must comply with the Railroad Safety Appliance standards in 49 CFR Part 231.
- b. MARKING - The marking requirement in § 172.302(c) is waived.

8. SPECIAL PROVISIONS:

- a. On a series of coupled cars, the bottom discharge outlet valve caps of the first and last tank cars must be removed when loading.
- b. The bottom discharge outlet valve assembly of all tank outlet valve assembly of all tank cars operating under this exemption must be visually inspected every fifteen (15) trips or at a minimum quarterly.
- c. The hand brake must be set and at least one wheel blocked in both directions on the first and last car provided the grade of the track is less than or equal to 0.5 percent.
- d. For grades exceeding 0.5 percent, the following table must be used to determine the percentage of additional hand brakes to be applied:

Grade percent	Percentage of cars to have hand brakes applied
<0 . 5	0
> 0.5 ≤0.6	20
>0.6≤0.7	35
>0.7≤0.8	50
>0.8≤0.9	65
>0.9≤1.0	80
>1.0	100

9. MODES OF TRANSPORTATION AUTHORIZED: Rail freight.
10. MODAL REQUIREMENTS: The Federal Railroad Administration is to be notified if any unusual incident such as derailment of exterior tank car damage occurs during the movement by contacting the:
- Federal Railroad Administration
Office of Safety, RRS-12
Hazardous Materials Division
1120 Vermont Avenue, N.W.
Washington, D.C. 20590
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C Section 5101 et seq:
- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts


- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8 who performs a function subject to this exemption must receive training on the requirement and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (§§ 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

OCT 18 2001
(Date)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S.
Department of Transportation, 400 7th Street, Washington, DC
20590-0001, Attention: Records Center, 202-366-5046.

PO: WS/AM